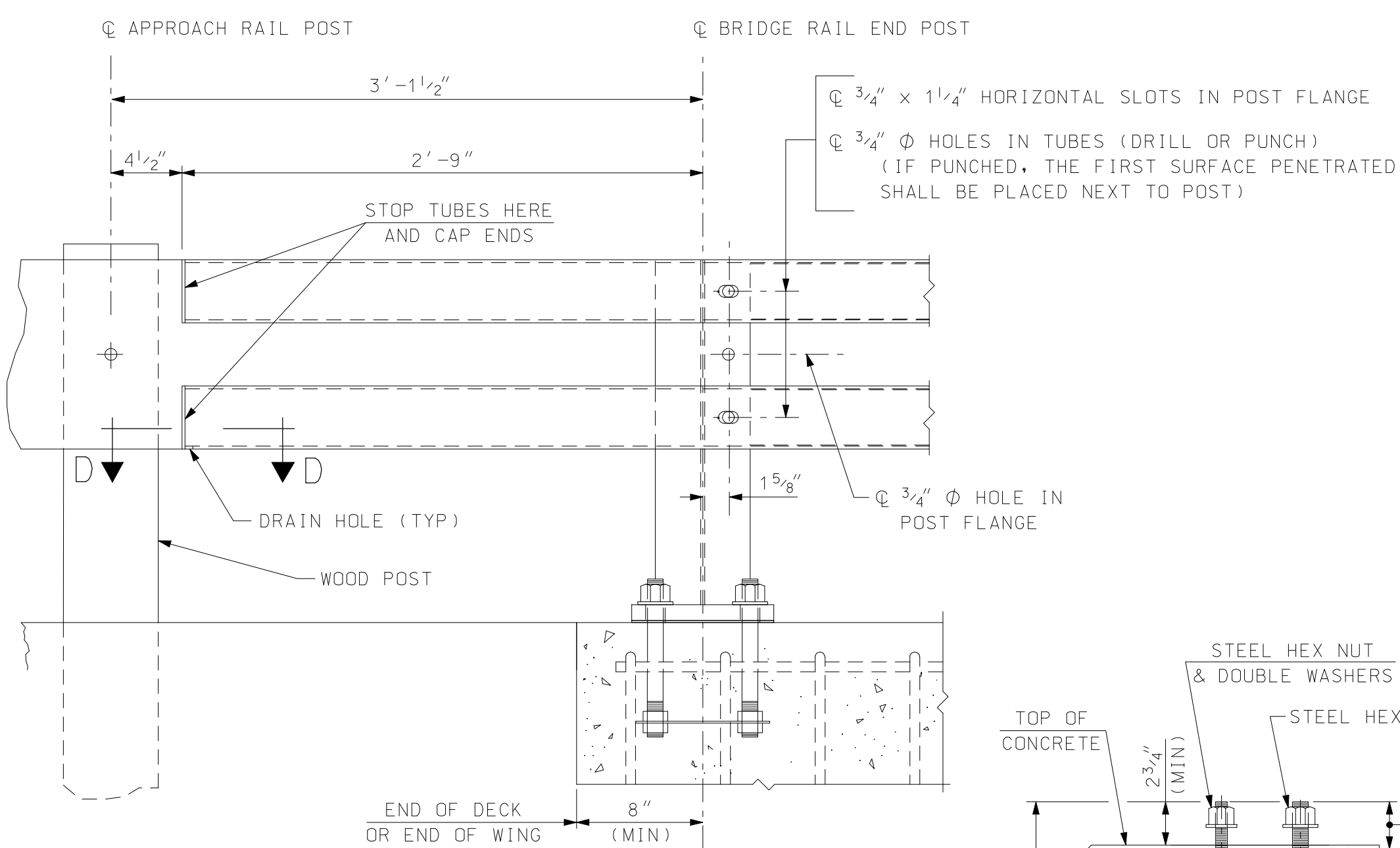
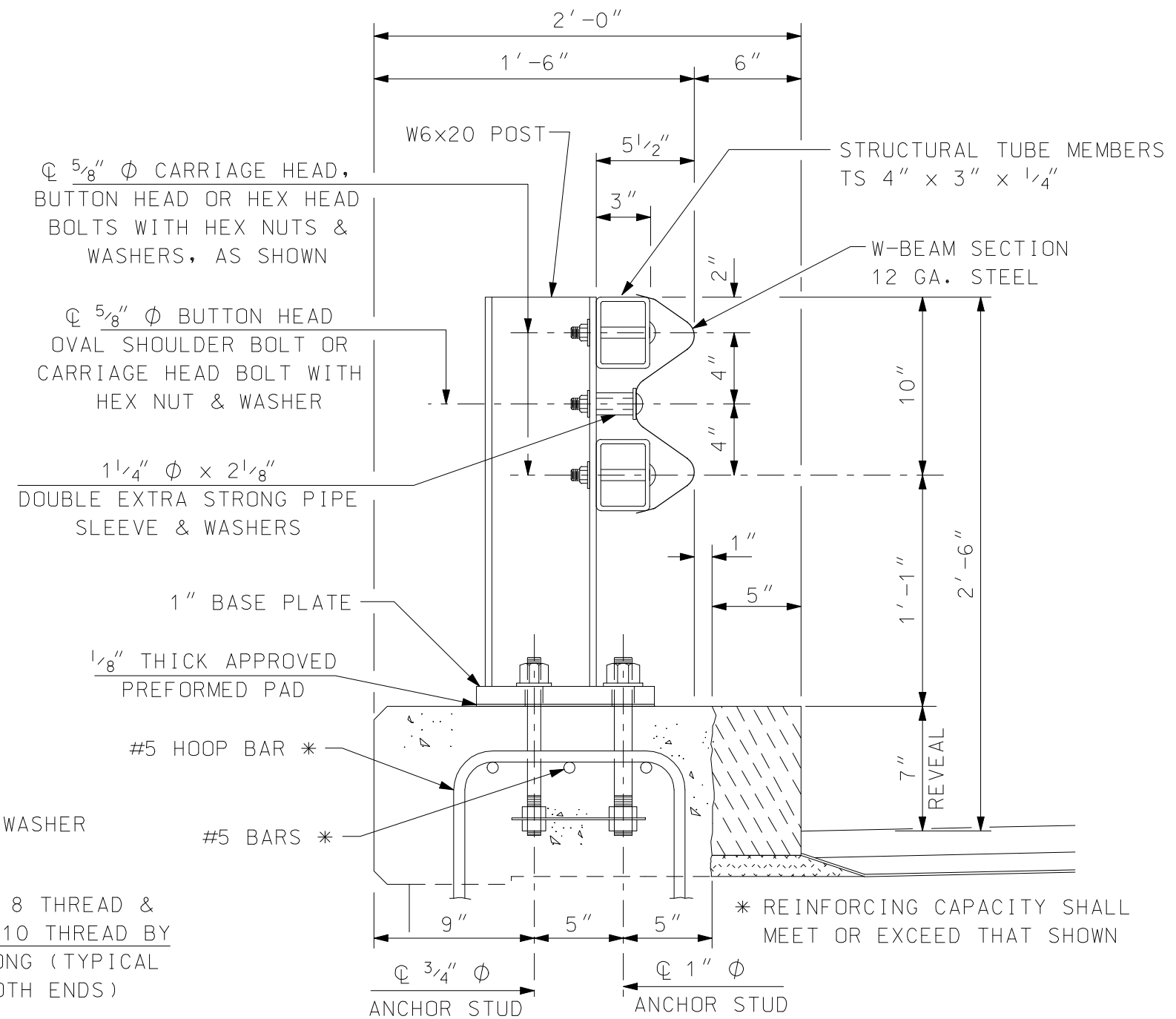


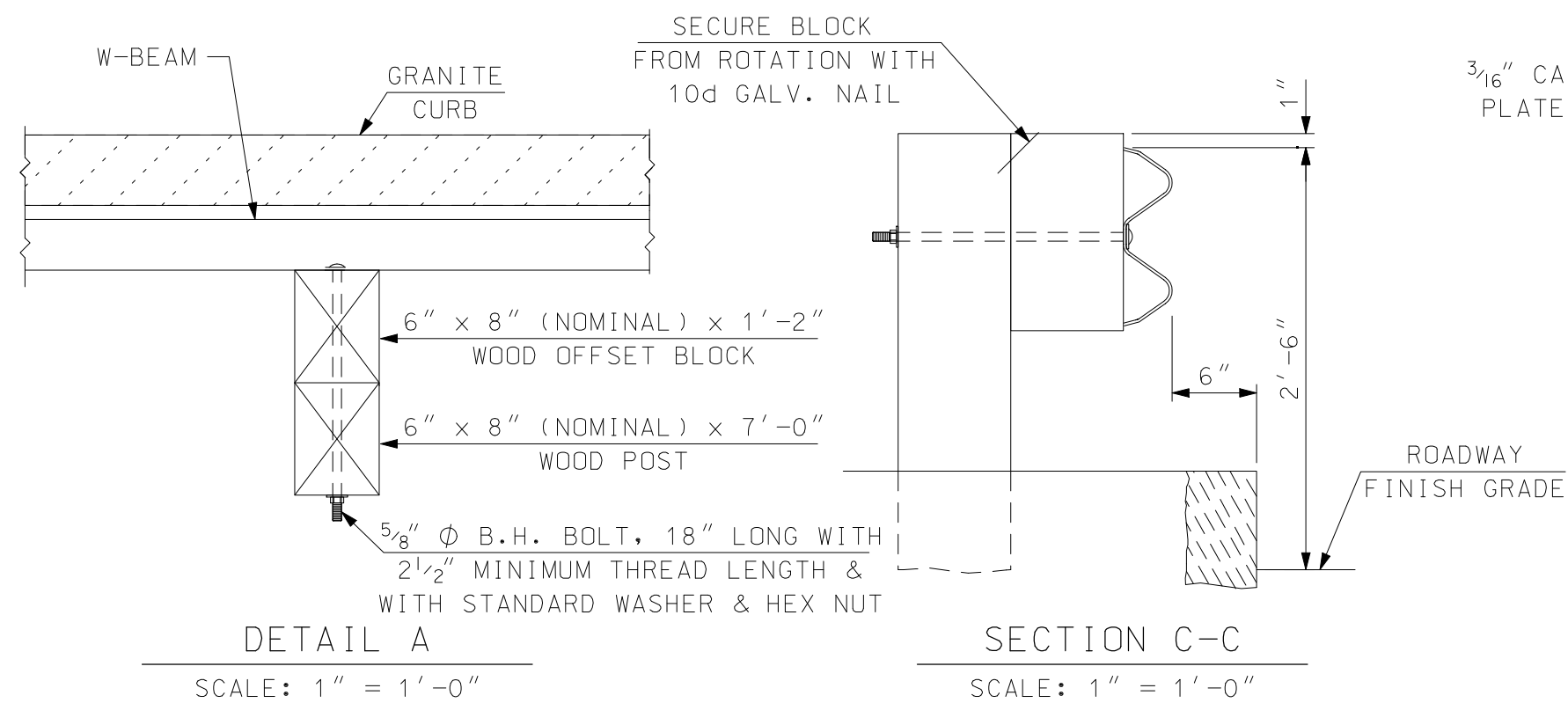
APPROACH RAIL LAYOUT
SCALE: 3/8" = 1'-0"



END POST DETAIL
SCALE: 1 1/2" = 1'-0"



BRIDGE RAIL DETAIL
SCALE: 1 1/2" = 1'-0"

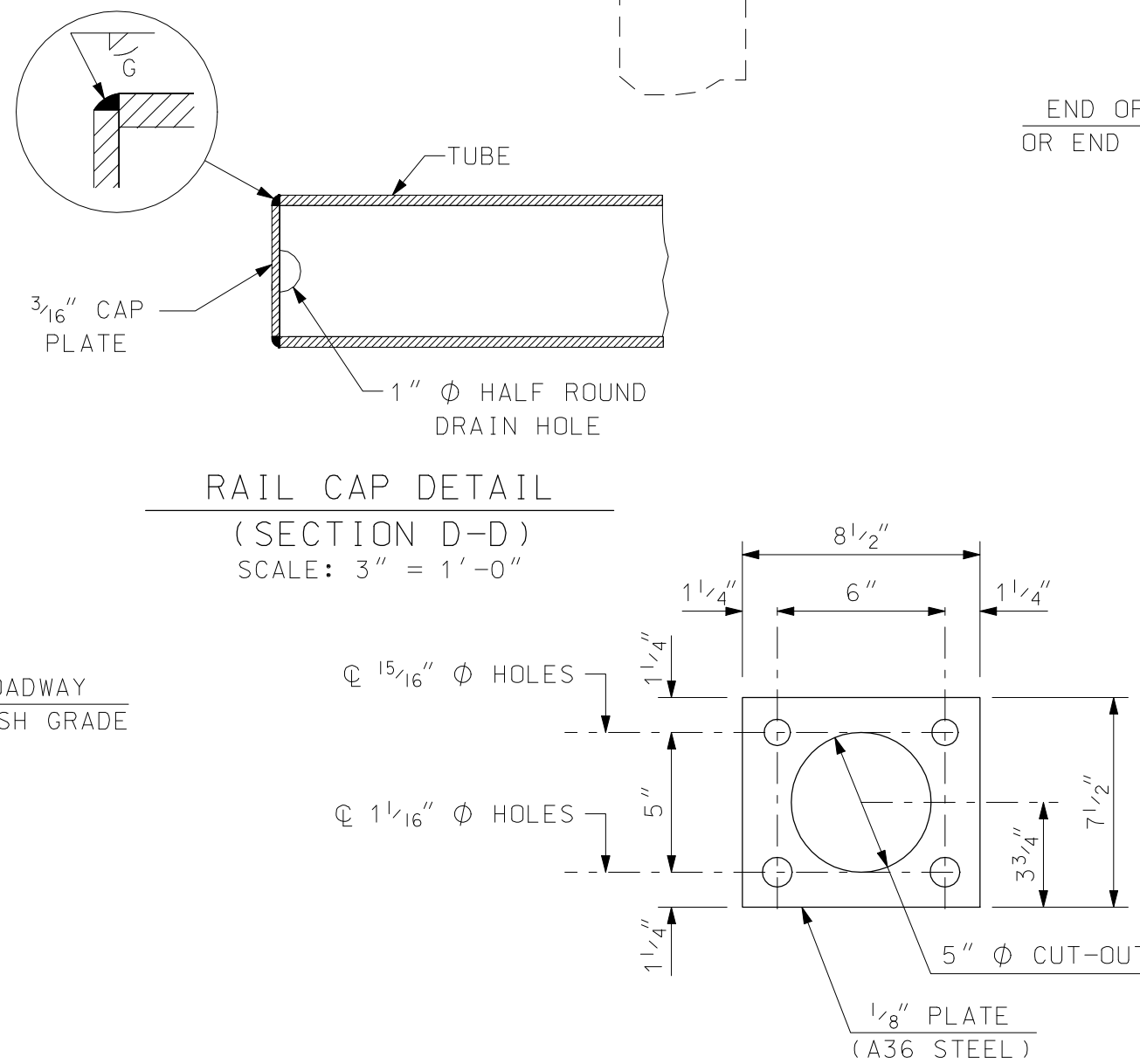


DETAIL A

SCALE: 1" = 1'-0"

SECTION C-C

SCALE: 1" = 1'-0"



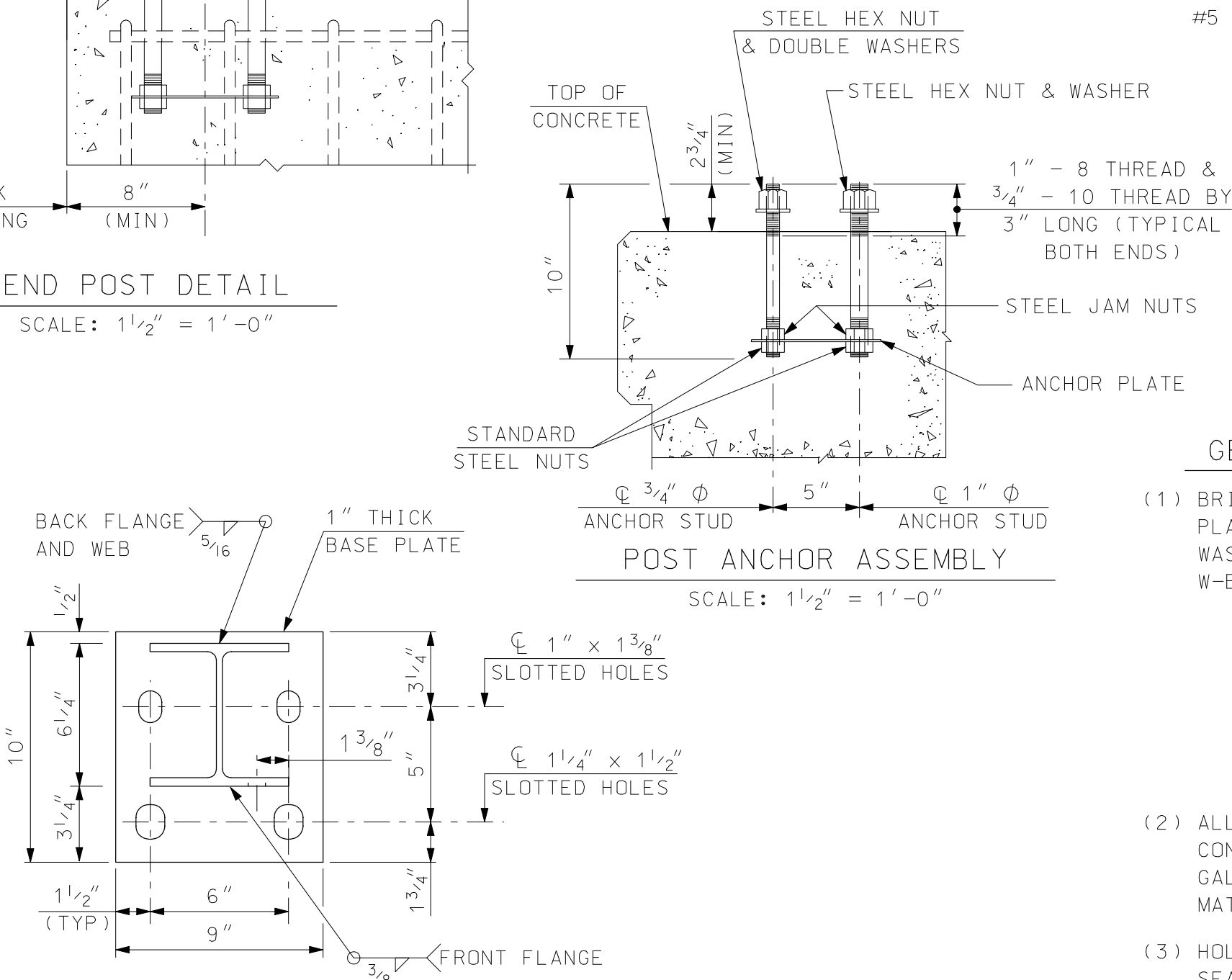
RAIL CAP DETAIL

(SECTION D-D)

SCALE: 3" = 1'-0"

ANCHOR PLATE DETAIL

SCALE: 2" = 1'-0"



POST ANCHOR ASSEMBLY

SCALE: 1 1/2" = 1'-0"

BASE PLATE DETAIL

(SECTION B-B)

SCALE: 2" = 1'-0"

GENERAL NOTES

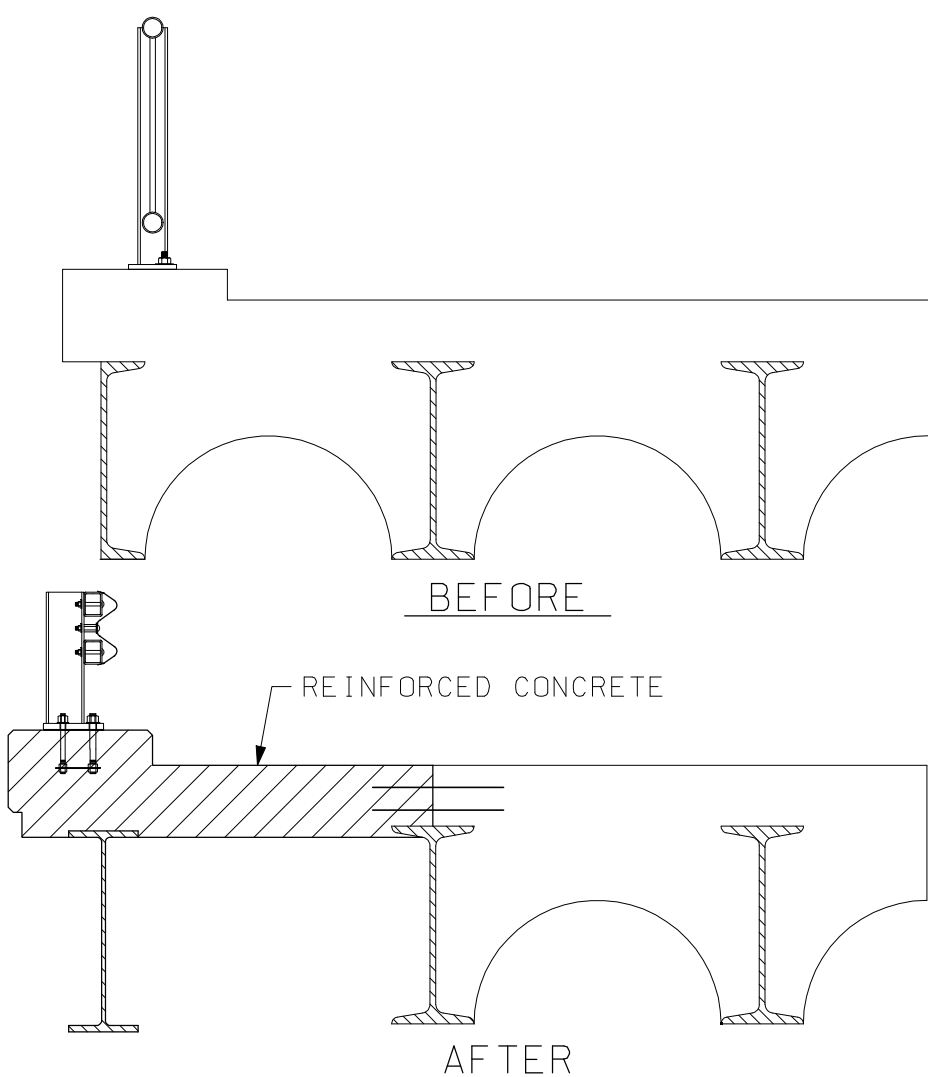
- BRIDGE RAIL T101 (F), SHALL INCLUDE POSTS, BASE PLATES, ANCHOR PLATES, ANCHOR STUDS, PREFORMED PADS, RAIL ASSEMBLY BOLTS, NUTS, WASHERS, STRUCTURAL TUBING, SPLICE BARS, PIPE SLEEVES AND W-BEAM SECTIONS.
 - ASTM A572 GRADE 50 : POSTS AND BASE PLATES
 - ASTM A500 GRADE B : STRUCTURAL TUBING
 - ASTM A36 : PIPE SLEEVES, RAIL SPLICE BARS AND ANCHOR PLATES
 - ASTM A449 : ANCHOR STUDS WITH STANDARD NUTS AND HARDENED STEEL COMMERCIAL TYPE A PLAIN WIDE WASHERS
 - A307 : RAIL BOLTS, NUTS, AND WASHERS
 - AASHTO M180 TYPE II : W-BEAM SECTIONS
- ALL STEEL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH AASHTO M232 (ASTM A153) AND AASHTO M111 (ASTM A123). GALVANIZED SURFACES SHALL HAVE A UNIFORM APPEARANCE AND GALVANIZED MATERIAL SHALL BE PROPERLY STORED.
- HOLES IN BASE PLATES SHALL BE FILLED FLUSH WITH ELASTOMERIC SEALANT AFTER RAIL INSTALLATION (SUBSIDIARY).
- STRUCTURAL TUBING SHALL BE SUPPLIED AS ONE PIECE FOR BRIDGE RAIL 40 FEET OR LESS IN LENGTH. IN OTHER CASES, TUBING SHALL BE SPLICED WITH A SPLICE BAR (SEE SPLICE BAR DETAILS). NO TRANSVERSE BUTT WELDS ARE PERMITTED ON RAIL TUBING WITHIN A CONTINUOUS LENGTH.
- EACH PIECE OF RAIL TUBING SHALL BE ATTACHED TO A MINIMUM OF THREE POSTS.
- FOR BRIDGE RAIL POST SPACING, SEE BRIDGE RAIL LAYOUT. THE MAXIMUM BRIDGE RAIL POST SPACING SHALL BE 8'-4". A POST SPACING OF 8'-4" OR 6'-3" IS RECOMMENDED WHENEVER POSSIBLE FOR USE WITH 25' SECTIONS OF THE STANDARD W-BEAM RAIL.
- PREFORMED BEARING PADS SHALL CONFORM TO AASHTO M251.
- NUTS FOR THREADED ANCHOR STUDS CONNECTING THE BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- THIS RAIL SYSTEM HAS BEEN SUCCESSFULLY EVALUATED BY FULL-SCALE CRASH TESTS TO MEET NCHRP REPORT 230 SL-2 CRITERIA (TEXAS TRAFFIC RAIL TYPE T101, REVISED 9/89).
- UNLESS DIRECTED OTHERWISE, USE BEAM GUARDRAIL TERMINAL UNIT TYPE EA0RT 25 FEET, ITEM 606.1455.

(GALVANIZED - 7" CURB REVEAL)

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN

TOWN	TOWN ROAD BRIDGES			BRIDGE NO.		----		STATE PROJECT		----	
LOCATION LOW SPEED, LOW TRAFFIC VOLUME											
RURAL TOWN - T101 BRIDGE AND APPROACH RAIL										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED		NHDOT		CHECKED		NHDOT	
				DRAWN		GMC/PJP		8/06		CHECKED JSZ 9/06	
				QUANTITIES		---		---		CHECKED --- ---	
				ISSUE DATE		9/91		FEDERAL PROJECT NO.		SHEET NO.	
				REV. DATE		10/2/06		-----		--	
				TOTAL SHEETS							



PROPOSED DECK REPLACEMENT
FOR RAIL ATTACHMENT
NOT TO SCALE

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
English/BGR	TOWN-BGR	AS NOTED

NOTE: THE DIFFERENCE BETWEEN THE OUTSIDE DIMENSIONS OF SPLICE BARS AND INSIDE DIMENSIONS OF THE RAIL SHALL BE APPROXIMATELY 1/8" (NOT TO EXCEED 3/16") ALONG EITHER AXIS TO PERMIT CLEARANCE FOR INSIDE WELD FLASH

NOTE: OTHER SECTIONS OF EQUAL OR GREATER STRENGTH ARE ACCEPTABLE FOR SPLICE BARS